

**S.D.E.**  
**M.C.A. Sem - IV : WINTER - 2018**  
**SUBJECT : EMBEDED SYSTEMS CONCEPTS & MODELING**

Day : Thursday  
Date : 06/12/2018

**W-2018-4810**

Time : 02.00 PM TO 05.00 PM  
Max. Marks : 80

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**N.B.:**

- 1) Attempt **ANY FOUR** questions from Section – I and attempt **ANY TWO** questions from Section – II.
  - 2) Answer to both the sections should be written in **SAPARATE** answer book.
  - 3) Figures to the right indicate **FULL** marks.
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**SECTION – I**

- Q.1** What are the categories of embedded system? Explain the new trends in embedded system. [12]
- Q.2** What is real time operating system? Explain in detail. [12]
- Q.3** What is parallel programming? Explain in detail. [12]
- Q.4** What is digital signal processing? Explain in detail. [12]
- Q.5** What are the different categories of Embedded System? Discuss in detail. [12]

**SECTION – II**

- Q.6** What is infinite loop in embedded program? Explain with example. [16]
- Q.7** Write a assembly language program for addition of two numbers using microcontroller. [16]
- Q.8** Write short notes on **ANY TWO** of the following: [16]
- a) Wireless networking
  - b) 8-bit microcontroller
  - c) System deployment

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